

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 15:48
S2	3	("3566354").URPN.	USPAT	OR	OFF	2005/09/20 13:18
S3	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/20 13:18
S4	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 13:45
S5	3	("3566354").URPN.	USPAT	OR	OFF	2005/09/20 14:24
S6	38	("2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 14:24
S7	8951	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/20 18:04
S8	7	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 15:52

## EAST Search History (Prior Art)

S9	70	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:22
S10	315	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:22
S11	5	S10 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:23
S12	8	S10 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:34
S13	3802	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:36
S14	855	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:36
S15	36	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:49
S16	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:38

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S17	7	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/21 16:50
S20	9	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:13
S21	23	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:17
S22	29	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:22
S23	897	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:27
S24	583	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:24
S25	25	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:24
S26	5	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/31 19:29

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S27	274	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:31
S28	170	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:52
S29	43	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:48
S30	76	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:48
S31	660	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 16:53
S32	32	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 17:35
S33	64	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 17:36
S34	22	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 17:36

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S35	37	( "3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/08 17:39
S36	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/22 17:43
S37	83	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/26 20:14
S38	27	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/26 20:14
S39	11167	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 21:24
S40	726	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 21:25
S41	37	S39 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 21:25

## EAST Search History (Prior Art)

S42	726	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/28 16:01
S43	11167	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/28 16:02
S44	37	S43 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/28 16:07
S45	3121	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/28 16:10
S46	726	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/28 16:10
S47	1	S45 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/28 16:11
S51	2616	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/23 11:45
S52	4	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/23 11:45

## EAST Search History (Prior Art)

S53	23	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/23 11:49
S54	2	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/23 11:55
S55	406	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/23 11:55
S56	48	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/23 11:56
S57	3	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/27 23:00
S62	3178	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 14:23
S63	13992	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 14:23
S64	434	S63 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 14:23

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S65	9	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 14:25
S66	35	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 14:27
S67	155	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 15:22
S68	160	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 15:22
S69	69	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/28 15:24
S70	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/28 16:20
S71	8	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S72	3	("3566354").URPN.	USPAT	OR	OFF	2008/12/29 01:50
S73	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

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S74	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/29 01:50
S75	3	("3566354").URPN.	USPAT	OR	OFF	2008/12/29 01:50
S76	38	("2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/29 01:50
S77	13992	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S78	10	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S79	150	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S80	485	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S81	12	S80 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

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S82	13	S80 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S83	6005	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S84	1359	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S85	62	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S86	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S87	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S89	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S91	29	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

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S92	32	(pixel\$2 near (number or density or count) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S93	1399	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S94	949	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S95	36	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S96	7	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S97	423	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S98	239	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S99	47	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

## EAST Search History (Prior Art)

S10 0	104	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 1	978	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 2	56	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 3	137	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 4	48	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 5	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/29 01:50
S10 6	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

## EAST Search History (Prior Art)

S10 7	104	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 8	48	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S10 9	13992	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 0	978	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 1	44	S109 and S110	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 2	978	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 3	13992	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 4	44	S113 and S112	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

## EAST Search History (Prior Art)

S11 5	3348	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 6	978	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S11 7	2	S115 and S116	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S12 1	2619	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S12 2	4	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S12 3	23	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S12 4	2	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S12 5	406	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

## EAST Search History (Prior Art)

S12 6	48	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S12 7	3	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 1	3178	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 2	13992	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 3	434	S132 and S131	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 4	9	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 5	35	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 6	155	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50

## EAST Search History (Prior Art)

S13 7	160	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 8	69	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 01:50
S13 9	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/29 01:50
S14 0	474734	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 02:03
S14 1	3178	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 02:04
S14 2	13992	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 02:04
S14 3	434	S142 and S141	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 02:04
S14 4	198	S140 and S143	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/29 02:04
S14 5	8	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S14 6	3	( "3566354" ).URPN.	USPAT	OR	OFF	2009/03/06 19:43
S14 7	2	( "5420937" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S14 8	22	( "3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43
S14 9	3	( "3566354" ).URPN.	USPAT	OR	OFF	2009/03/06 19:43
S15 0	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43
S15 1	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 2	10	( pixel near count ) and ( quality near fingerprint )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 3	150	( pixel near count ) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 4	490	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S15 5	12	S154 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 6	13	S154 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 7	6138	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 8	1402	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S15 9	64	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 0	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 1	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 4	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S16 5	32	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 6	32	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 7	1444	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 8	984	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S16 9	38	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 0	8	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 1	439	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 2	242	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S17 3	47	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 4	106	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 5	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 6	57	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 7	147	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 8	53	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S17 9	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S18 0	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 1	106	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 2	53	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 3	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 4	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 5	46	S183 and S184	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 6	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 7	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S18 8	46	S187 and S186	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S18 9	3370	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S19 0	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S19 1	2	S189 and S190	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S19 5	2661	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S19 6	4	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S19 7	23	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S19 8	2	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S19 9	413	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 0	49	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 1	3	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 5	3278	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 6	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 7	447	S206 and S205	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 8	9	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S20 9	35	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S21 0	157	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S21 1	162	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S21 2	71	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S21 3	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43
S21 4	8	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S21 5	3	("3566354").URPN.	USPAT	OR	OFF	2009/03/06 19:43
S21 6	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S21 7	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43
S21 8	3	("3566354").URPN.	USPAT	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S21 9	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43
S22 0	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 1	10	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 2	150	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 3	490	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 4	12	S223 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 5	13	S223 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 6	6138	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S22 7	1402	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 8	64	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S22 9	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 0	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 3	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 4	32	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 5	32	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 6	1444	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S23 7	984	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 8	38	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S23 9	8	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 0	439	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 1	242	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 2	47	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 3	106	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 4	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S24 5	57	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 6	147	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 7	53	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S24 8	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43
S24 9	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 0	106	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 1	53	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S25 2	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 3	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 4	46	S252 and S253	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 5	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 6	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 7	46	S256 and S255	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 8	3370	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S25 9	1000	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S26 0	2	S258 and S259	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S26 3	1	(monochrome and raw and scan and image and count and pixel\$2 and value and quality).clm.	US-PGPUB	OR	OFF	2009/03/06 19:43
S26 4	2661	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S26 5	4	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S26 6	23	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S26 7	2	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S26 8	413	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S26 9	49	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S27 0	3	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S27 4	3278	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S27 5	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S27 6	447	S275 and S274	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S27 7	9	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S27 8	35	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S27 9	157	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 0	162	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 1	71	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 2	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/06 19:43

## EAST Search History (Prior Art)

S28 3	482639	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 4	3278	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 5	14300	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 6	447	S285 and S284	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 7	206	S283 and S286	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/06 19:43
S28 8	1	(raw and image and slope and monochrome and quality).clm.	US-PGPUB	OR	OFF	2009/03/06 22:04
S28 9	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S29 0	3	("3566354").URPN.	USPAT	OR	OFF	2009/11/08 22:38
S29 1	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S29 2	22	( "3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S29 3	3	( "3566354" ).URPN.	USPAT	OR	OFF	2009/11/08 22:38
S29 4	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S29 5	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S29 6	11	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S29 7	163	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S29 8	522	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S29 9	15	S298 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S30 0	15	S298 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 1	6615	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 2	1495	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 3	69	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 4	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 5	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 8	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S30 9	35	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S31 0	34	(pixel\$2 near (number or density or count) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 1	1641	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 2	1126	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 3	42	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 4	10	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 5	475	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 6	269	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 7	51	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S31 8	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S31 9	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 0	63	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 1	173	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 2	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 3	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S32 4	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S32 5	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 6	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 7	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 8	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S32 9	49	S327 and S328	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S33 0	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S33 1	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S33 2	49	S331 and S330	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S33 3	3459	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S33 4	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S33 5	3	S333 and S334	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S33 8	1	(monochrome and raw and scan and image and count and pixel\$2 and value and quality).clm.	US-PGPUB	OR	OFF	2009/11/08 22:38
S33 9	2885	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S34 0	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S34 1	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S34 2	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S34 3	448	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S34 4	55	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S34 5	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S34 9	3583	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 0	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 1	491	S350 and S349	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 2	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 3	36	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 4	165	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S35 5	170	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 6	76	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 7	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S35 8	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S35 9	3	( "3566354" ).URPN.	USPAT	OR	OFF	2009/11/08 22:38
S36 0	2	( "5420937" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S36 1	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S36 2	3	( "3566354" ).URPN.	USPAT	OR	OFF	2009/11/08 22:38
S36 3	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S36 4	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S36 5	11	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S36 6	163	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S36 7	522	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S36 8	15	S367 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S36 9	15	S367 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 0	6615	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 1	1495	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S37 2	69	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 3	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 4	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 7	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 8	35	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S37 9	34	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 0	1641	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 1	1126	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S38 2	42	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 3	10	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 4	475	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 5	269	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 6	51	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 7	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 8	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S38 9	63	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S39 0	173	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 1	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 2	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S39 3	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 4	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 5	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 6	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S39 7	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 8	49	S396 and S397	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S39 9	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 0	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 1	49	S400 and S399	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 2	3459	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 3	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 4	3	S402 and S403	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 7	1	(monochrome and raw and scan and image and count and pixel\$2 and value and quality).clm.	US-PGPUB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S40 8	2885	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S40 9	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S41 0	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S41 1	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S41 2	448	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S41 3	55	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S41 4	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S41 8	3583	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S41 9	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 0	491	S419 and S418	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 1	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 2	36	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 3	165	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 4	170	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 5	76	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 6	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S42 7	510430	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S42 8	3583	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S42 9	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S43 0	491	S429 and S428	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S43 1	224	S427 and S430	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S43 2	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S43 3	3	("3566354").URPN.	USPAT	OR	OFF	2009/11/08 22:38
S43 4	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S43 5	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S43 6	3	("3566354").URPN.	USPAT	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S43 7	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S43 8	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S43 9	11	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 0	163	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 1	522	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 2	15	S441 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 3	15	S441 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 4	6615	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S44 5	1495	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 6	69	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 7	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S44 8	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 1	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 2	35	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 3	34	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 4	1641	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S45 5	1126	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 6	42	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 7	10	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 8	475	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S45 9	269	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 0	51	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 1	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 2	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S46 3	63	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 4	173	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 5	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 6	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S46 7	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 8	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S46 9	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S47 0	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 1	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 2	49	S470 and S471	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 3	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 4	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 5	49	S474 and S473	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 6	3459	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S47 7	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S47 8	3	S476 and S477	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 2	2885	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 3	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 4	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 5	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 6	448	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 7	55	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S48 8	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S49 2	3583	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 3	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 4	491	S493 and S492	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 5	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 6	36	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 7	165	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 8	170	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S49 9	76	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S50 0	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S50 1	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S50 2	3	("3566354").URPN.	USPAT	OR	OFF	2009/11/08 22:38
S50 3	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S50 4	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S50 5	3	("3566354").URPN.	USPAT	OR	OFF	2009/11/08 22:38
S50 6	38	("2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S50 7	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S50 8	11	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S50 9	163	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S51 0	522	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 1	15	S510 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 2	15	S510 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 3	6615	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 4	1495	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 5	69	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 6	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S51 7	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S52 0	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 1	35	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 2	34	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 3	1641	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 4	1126	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 5	42	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 6	10	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 7	475	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S52 8	269	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S52 9	51	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 0	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 1	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 2	63	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 3	173	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 4	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S53 5	37	( "3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S53 6	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 7	114	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 8	62	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S53 9	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 0	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 1	49	S539 and S540	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S54 2	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 3	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 4	49	S543 and S542	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 5	3459	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 6	1079	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S54 7	3	S545 and S546	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S55 1	2885	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S55 2	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S55 3	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S55 4	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S55 5	448	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S55 6	55	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S55 7	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 1	3583	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 2	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 3	491	S562 and S561	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S56 4	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 5	36	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 6	165	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 7	170	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 8	76	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S56 9	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/08 22:38
S57 0	510430	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S57 1	3583	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S57 2	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38

## EAST Search History (Prior Art)

S57 3	491	S572 and S571	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S57 4	224	S570 and S573	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/08 22:38
S57 6	101069	(pixel\$2 or pel\$2) and (pattern or fingerprint) and (qualit\$4 or clarit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:56
S57 7	15509	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:56
S57 8	3208	S576 and S577	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:56
S57 9	953	(palm or finger) near3 print\$3 and (qualit\$4 or clarit\$3) and frequenc\$4 same (region\$2 or block\$4 or area\$2 or portion\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:58
S58 0	114	S577 and S579	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:58
S58 1	227	(palm or finger) near3 print\$3 and (qualit\$4 or clarit\$3) and frequenc\$4 same (region\$2 or block\$4 or area\$2 or portion\$2) and fourier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:59

## EAST Search History (Prior Art)

S58 2	43	S577 and S581	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 06:59
S58 3	24	akira near monden	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 07:04
S58 4	5	akira near monden and (finger or palm) near3 print\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/09 07:05
S58 5	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S58 6	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:19
S58 7	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S58 8	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S58 9	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:19
S59 0	38	("2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S59 1	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 2	12	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 3	176	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 4	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 5	15	S594 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 6	17	S594 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 7	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S59 8	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S59 9	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 0	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 1	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 2	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 3	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 4	36	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 5	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 6	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S60 7	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 8	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S60 9	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 0	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 1	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 2	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 3	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 4	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S61 5	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 6	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 7	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S61 8	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S61 9	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 0	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 1	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S62 2	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 3	52	S621 and S622	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 4	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 5	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 6	52	S625 and S624	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 7	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 8	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S62 9	3	S627 and S628	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S63 0	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 1	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 2	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 3	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 4	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 5	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 6	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 7	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S63 8	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S63 9	521	S638 and S637	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 0	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 1	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 2	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 3	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 4	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 5	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S64 6	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S64 7	3	( "3566354" ).URPN.	USPAT	OR	OFF	2010/03/22 19:19
S64 8	2	( "5420937" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S64 9	22	( "3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S65 0	3	( "3566354" ).URPN.	USPAT	OR	OFF	2010/03/22 19:19
S65 1	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S65 2	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S65 3	12	( pixel near count ) and ( quality near fingerprint )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S65 4	176	( pixel near count ) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S65 5	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S65 6	15	S655 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S65 7	17	S655 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S65 8	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S65 9	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 0	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 1	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 2	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 3	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S66 4	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 5	36	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 6	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 7	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 8	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S66 9	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 0	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 1	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S67 2	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 3	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 4	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 5	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 6	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 7	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S67 8	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S67 9	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 0	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 1	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 2	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 3	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 4	52	S682 and S683	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 5	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 6	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S68 7	52	S686 and S685	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 8	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S68 9	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 0	3	S688 and S689	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 1	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 2	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 3	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 4	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S69 5	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 6	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 7	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 8	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S69 9	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 0	521	S699 and S698	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 1	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 2	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S70 3	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 4	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 5	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 6	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S70 7	527160	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 8	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S70 9	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S71 0	521	S709 and S708	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S71 1	236	S707 and S710	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S71 2	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S71 3	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:19
S71 4	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S71 5	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S71 6	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:19
S71 7	38	("2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S71 8	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S71 9	12	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 0	176	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S72 1	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 2	15	S721 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 3	17	S721 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 4	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 5	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 6	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 7	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S72 8	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S72 9	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 0	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 1	36	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 2	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 3	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 4	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 5	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 6	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S73 7	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 8	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S73 9	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 0	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 1	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 2	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 3	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19

## EAST Search History (Prior Art)

S74 4	37	( "3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:19
S74 5	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 6	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 7	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 8	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S74 9	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:19
S75 0	52	S748 and S749	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S75 1	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 2	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 3	52	S752 and S751	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 4	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 5	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 6	3	S754 and S755	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 7	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S75 8	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S75 9	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 0	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 1	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 2	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 3	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 4	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 5	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 6	521	S765 and S764	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S76 7	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 8	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S76 9	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S77 0	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S77 1	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S77 2	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S77 3	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S77 4	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:20
S77 5	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S77 6	22	( "3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S77 7	3	( "3566354" ).URPN.	USPAT	OR	OFF	2010/03/22 19:20
S77 8	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S77 9	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 0	12	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 1	176	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 2	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 3	15	S782 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S78 4	17	S782 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 5	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 6	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 7	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 8	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S78 9	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 0	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 1	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S79 2	36	(pixel\$2 near (number or density or count) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 3	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 4	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 5	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 6	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 7	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 8	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S79 9	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S80 0	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 1	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 2	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 3	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 4	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 5	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S80 6	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S80 7	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 8	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S80 9	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 0	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 1	52	S809 and S810	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 2	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 3	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 4	52	S813 and S812	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S81 5	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 6	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 7	3	S815 and S816	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S81 8	1	(monochrome and raw and scan and image and count and pixel\$2 and value and quality).clm.	US-PGPUB	OR	OFF	2010/03/22 19:20
S81 9	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 0	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 1	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 2	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 3	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S82 4	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 5	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 6	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 7	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 8	521	S827 and S826	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S82 9	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 0	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 1	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S83 2	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 3	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 4	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S83 5	527160	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 6	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 7	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 8	521	S837 and S836	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S83 9	236	S835 and S838	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S84 0	1	(raw and image and slope and monochrome and quality).clm.	US-PGPUB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S84 1	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S84 2	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:20
S84 3	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S84 4	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S84 5	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:20
S84 6	38	("2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S84 7	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S84 8	12	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S84 9	176	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S85 0	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 1	15	S850 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 2	17	S850 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 3	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 4	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 5	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 6	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 7	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S85 8	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S85 9	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 0	36	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 1	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 2	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 3	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 4	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 5	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S86 6	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 7	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 8	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S86 9	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 0	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 1	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 2	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S87 3	37	( "3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S87 4	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 5	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 6	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 7	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 8	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S87 9	52	S877 and S878	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S88 0	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 1	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 2	52	S881 and S880	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 3	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 4	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 5	3	S883 and S884	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 6	1	(monochrome and raw and scan and image and count and pixel\$2 and value and quality).clm.	US-PGPUB	OR	OFF	2010/03/22 19:20
S88 7	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S88 8	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S88 9	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 0	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 1	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 2	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 3	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 4	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 5	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 6	521	S895 and S894	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S89 7	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 8	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S89 9	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S90 0	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S90 1	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S90 2	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S90 3	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S90 4	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:20
S90 5	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20

## EAST Search History (Prior Art)

S90 6	22	( "3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S90 7	3	( "3566354" ).URPN.	USPAT	OR	OFF	2010/03/22 19:20
S90 8	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:20
S90 9	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S91 0	12	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S91 1	176	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S91 2	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:20
S91 3	15	S912 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S91 4	17	S912 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S91 5	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S91 6	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S91 7	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S91 8	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S91 9	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 0	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 1	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S92 2	36	(pixel\$2 near (number or density or count) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 3	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 4	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 5	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 6	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 7	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 8	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S92 9	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S93 0	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 1	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 2	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 3	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 4	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 5	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S93 6	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S93 7	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 8	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S93 9	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 0	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 1	52	S939 and S940	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 2	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 3	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 4	52	S943 and S942	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S94 5	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 6	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 7	3	S945 and S946	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S94 8	1	(monochrome and raw and scan and image and count and pixel\$2 and value and quality).clm.	US-PGPUB	OR	OFF	2010/03/22 19:21
S94 9	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 0	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 1	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 2	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 3	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S95 4	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 5	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 6	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 7	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 8	521	S957 and S956	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S95 9	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 0	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 1	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S96 2	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 3	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 4	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S96 5	527160	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 6	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 7	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 8	521	S967 and S966	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S96 9	236	S965 and S968	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S97 0	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S97 1	3	( "3566354" ).URPN.	USPAT	OR	OFF	2010/03/22 19:21
S97 2	2	( "5420937" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S97 3	22	( "3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S97 4	3	( "3566354" ).URPN.	USPAT	OR	OFF	2010/03/22 19:21
S97 5	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S97 6	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S97 7	12	( pixel near count ) and ( quality near fingerprint )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S97 8	176	( pixel near count ) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S97 9	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S98 0	15	S979 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 1	17	S979 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 2	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 3	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 4	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 5	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 6	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 7	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S98 8	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S98 9	36	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 0	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 1	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 2	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 3	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 4	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 5	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S99 6	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 7	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 8	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S99 9	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 00	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 01	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 02	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 03	2	("5995640").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 04	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 05	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 06	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 07	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 08	52	S1006 and S1007	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 09	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 10	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 11	52	S1010 and S1009	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 12	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 13	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 14	3	S1012 and S1013	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 15	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 16	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 17	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 18	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 19	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 20	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 21	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 22	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 23	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 24	521	S1023 and S1022	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 25	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 26	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 27	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 28	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 29	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 30	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S10 31	10	slope same contour same image and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 32	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:21
S10 33	2	("5420937").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 34	22	("3558864"   "3699519"   "3893080"   "4015240"   "4156230"   "4210899"   "4310827"   "4696046"   "4747147"   "4790564"   "4817183"   "4896363"   "4944021"   "4947442"   "4948443"   "5040223"   "5040224"   "5067162"   "5105467"   "5109428"   "5187747"   "5239590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S10 35	3	("3566354").URPN.	USPAT	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 36	38	( "2952181"   "3231861"   "3245697"   "3292149"   "3383657"   "3566354"   "3584958"   "3771129"   "3801823"   "3944978"   "3959884"   "3968475"   "4109237"   "4152056"   "4210899"   "4325570"   "4414684"   "4537484"   "4618988"   "4696046"   "4747147"   "4790564"   "4811414"   "4817183"   "4874932"   "4882474"   "4896363"   "4933976"   "4944021"   "4947027"   "4947442"   "5067162" ).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:21
S10 37	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 38	12	(pixel near count) and (quality near fingerprint)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 39	176	(pixel near count) and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 40	556	382/112.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 41	15	S1040 and fingerprint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 42	17	S1040 and (pixel near count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 43	6848	(pixel\$2 near (density or count)) and (pattern or fingerprint) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 44	1546	(pixel\$2 near (density or count)) and (pattern or fingerprint) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 45	70	(pixel\$2 near (density or count)) and (pattern or fingerprint) near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 46	2	("5239590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 47	13	(pixel\$2 near (density) and (pattern or fingerprint) near quality same (compar\$4 or match\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 48	11	(compar\$5 or match\$3) near (pixel\$2 near (density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 49	37	(compar\$5 or match\$3) near (pixel\$2 near (number or density or count)) near (reference or threshold) and quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 50	36	(pixel\$2 near (number or density or count)) near (reference or threshold) same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 51	1753	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 52	1208	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 53	44	(detect\$3 or analyz\$3 or classif\$7) near4 quality near (image\$2 or picture\$2 or pixel\$2) same (pixel\$2 near (number or density or count))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 54	11	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) near (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 55	500	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (pixel\$2 near (number or density or count)) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 56	285	(detect\$3 or analyz\$3 or classif\$7) near4 quality same (image\$2 or picture\$2 or pixel\$2) and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 57	55	ridge same count same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 58	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 59	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21

## EAST Search History (Prior Art)

S10 60	67	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold) and fingerprint\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 61	188	pixel near count same image near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:21
S10 62	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 63	37	("3419287"   "3564266"   "3893080"   "3928842"   "4015240"   "4047154"   "4083035"   "4135147"   "4151512"   "4185270"   "4208651"   "4229023"   "4310827"   "4325570"   "4607384"   "4646352"   "4685145"   "4747147"   "4752966"   "4785171"   "4790564"   "4817183"   "4872203"   "4876726"   "4905293"   "4944021"   "4947442"   "5040223"   "5040224"   "5050220"   "5109428"   "5140642"   "5177792"   "5187747"   "5420937"   "D303251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:22
S10 64	2	( "5995640" ).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 65	124	(ridge or pixel\$2) same count same quality same threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 66	69	pixel near count same image near quality and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22

## EAST Search History (Prior Art)

S10 67	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 68	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 69	52	S1067 and S1068	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 70	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 71	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 72	52	S1071 and S1070	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 73	3519	358/2.99,448,464-466.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 74	1130	(detect\$3 or analyz\$3 or classif\$7) near4 quality and (compar\$3 or match\$3) near6 ((pixel\$2 near (number or density or count)) or count or number) same (reference or threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22

## EAST Search History (Prior Art)

S10 75	3	S1073 and S1074	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 76	3021	fingerprint same quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 77	5	fingerprint same quality and rescan	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 78	26	fingerprint same quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 79	3	fingerprint near quality and (rescan or retak\$3 or reimag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 80	467	fingerprint near quality	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 81	57	fingerprint near quality and interrupt\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 82	4	"09788148"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22

## EAST Search History (Prior Art)

S10 83	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 84	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 85	521	S1084 and S1083	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 86	10	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 87	39	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3 and slope near5 table\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 88	169	fingerprint\$2 and pressure same finger and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 89	174	fingerprint\$2 and pressure same finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 90	78	fingerprint\$2 and pressure near finger\$2 and ((ridge\$2 or minutia\$2) same (orientation\$3 or angles\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 91	9	("4578765"   "4747148"   "4962541"   "5067161"   "5067162"   "5105467"   "5121444"   "5239590"   "5255331").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/22 19:22

## EAST Search History (Prior Art)

S10 92	527160	(intensit\$3 or brightness or contrast\$2) same (count\$4 or variation\$3 or change\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 93	3752	(monochrome or binary) with (image\$2 or picture\$2) and (determin\$5 or comput\$5 or calculat\$3) same (angle\$2 or orientat\$4 or slope) same pixel\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 94	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 95	521	S1094 and S1093	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 96	236	S1092 and S1095	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 97	106035	(pixel\$2 or pel\$2) and (pattern or fingerprint) and (qualit\$4 or clarit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 98	16364	382/124-127,115-119,170,190,192,197,199, 224,258,259,266,275,267,298.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S10 99	3430	S1097 and S1098	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22

## EAST Search History (Prior Art)

S11 00	1017	(palm or finger) near3 print\$3 and (qualit\$4 or clarit\$3) and frequenc\$4 same (region\$2 or block\$4 or area\$2 or portion\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S11 01	117	S1098 and S1100	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S11 02	239	(palm or finger) near3 print\$3 and (qualit\$4 or clarit\$3) and frequenc\$4 same (region\$2 or block\$4 or area\$2 or portion\$2) and fourier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S11 03	43	S1098 and S1102	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S11 04	24	akira near monden	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22
S11 05	5	akira near monden and (finger or palm) near3 print\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/22 19:22

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S11 06	1	((finger\$2 or palm\$2) and frequenc\$4 and (clear or clarit\$3) and (center\$2 or central\$2) and (peripheral\$2 or edge\$2) and monoton\$4).clm.	US-PGPUB; USPAT; UPAD	OR	OFF	2010/03/24 12:07
S11 07	4	((finger\$2 or palm\$2) and frequenc\$4 and (clear or clarit\$3) and (center\$2 or central\$2) and (peripheral\$2 or edge\$2)).clm.	US-PGPUB; USPAT; UPAD	OR	OFF	2010/03/24 12:08